

94

generating a diagram associated with the system design, wherein the diagram includes the element and the plurality of components;

establishing guidelines for designing the system; and

automatically determining a routing pattern in the system for the element based on the diagram and the guidelines.

REMARKS

These amendments are being submitted for consistency between the claims. Please consider these amendments in examining the claims.

If there is any fee due in connection with the filing of this Preliminary Amendment, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

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APPENDIX TO CLAIM AMENDMENTS

1. (Amended) A method of designing a system including an element, wherein the element connects a plurality of components, the method comprising:

- establishing a system design including the plurality of components;
- generating a diagram associated with the system design, wherein the [wiring] diagram includes the element and the plurality of components;
- establishing guidelines for designing the system; and
- automatically determining a routing pattern in the system for the element based on the [wiring] diagram and the guidelines.

10. (Amended) A computer-readable medium including instructions for designing a structure for routing a plurality of elements for connecting components, comprising the steps of:

- establishing a system design including a plurality of components;
- generating a [wiring] diagram associated with the system design, wherein the [wiring] diagram includes the plurality of elements and the plurality of components;
- accessing guidelines for designing the structure; and
- automatically determining routing patterns in the structure for the plurality of elements based on the [wiring] diagram and the guidelines.

12. (Amended) The computer-readable medium of claim 10, further including the steps of:

- receiving one or more revised guidelines for designing the structure; and

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determining a revised routing pattern in the structure for the plurality of elements based on the [wiring] diagram and the revised guidelines.

21. (Amended) A system for designing a system including an element, wherein the element connects a plurality of components, the system comprising:

- a routing design module configured to perform the following steps,
 - establishing a system design including the plurality of components;
 - generating a diagram associated with the system design, wherein the [wiring] diagram includes the element and the plurality of components;
 - establishing guidelines for designing the system; and
 - automatically determining a routing pattern in the system for the element based on the [wiring] diagram and the guidelines.

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